ABSTRACT OF THE DISCLOSURE

With first, second and third current exchanger circuits cascaded, a current in proportion to a difference between an ambient temperature **Ta** and a reference temperature **Tr** is input to the first current exchanger circuit. The first current exchanger circuit supplies a current in proportion to the square of Ta – Tr to the second current exchanger circuit, the second current exchanger circuit supplies a current in proportion to the fourth power of Ta – Tr to the third current exchanger circuit, and the third current exchanger circuit outputs a current in proportion to the fifth power of Ta – Tr. Each of the first, second and third current exchanger circuits has a configuration which does not require a high supply voltage enough to drive a series circuit of three or more diodes.

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